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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/745,772	12/22/2000	Yoshiki Uchida	36J.P267	7034	
5514 7590 03/11/2004			EXAMINER		
	K CELLA HARPER &	WU, JINGGE			
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT PAPER NU		
			2623		
			DATE MAILED: 03/11/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
Office Action Summary		Application No						
		09/745,772		UCHIDA, YOSHIKI				
		Examiner		Art Unit				
		Jingge Wu		2623				
The MAILING DATE of Period for Reply	f this communication app	ears on the cove	r sheet with the c	orrespondence add	dress			
A SHORTENED STATUTOR THE MAILING DATE OF TH  - Extensions of time may be available u after SIX (6) MONTHS from the mailir  - If the period for reply specified above - If NO period for reply is specified abov  - Failure to reply within the set or exten Any reply received by the Office later earned patent term adjustment. See 3	IS COMMUNICATION.  nder the provisions of 37 CFR 1.13  g date of this communication.  is less than thirty (30) days, a reply  ce, the maximum statutory period w  ded period for reply will, by statute,  than three months after the mailing	36(a). In no event, how y within the statutory mi vill apply and will expire , cause the application	rever, may a reply be tim nimum of thirty (30) day: SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
Status								
1) Responsive to commu	nication(s) filed on 22 De	ecember 2000.						
2a) This action is FINAL.	• •	action is non-fir	nal.					
3) Since this application i								
closed in accordance v	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)	(s) is/are withdrawallowed. jected. objected to.	wn from conside						
Application Papers								
	is/are: a) accest that any objection to the eet(s) including the correct	epted or b) ob drawing(s) be held ion is required if th	I in abeyance. See ne drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	` '			
Priority under 35 U.S.C. § 119			•					
12) Acknowledgment is ma a) All b) Some * c) 1. Certified copies 2. Certified copies 3. Copies of the ce	None of: of the priority documents of the priority documents rtified copies of the prior the International Bureau	s have been reconst have been reconstructions in the second secon	eived. eived in Application ave been receive 2(a)).	on No ed in this National \$	Stage			
Attachment(s)  1) Notice of References Cited (PTO-2) Notice of Draftsperson's Patent Draftsperson's Patent Draftsperson's Patent Draftsperson's Patent Draftsperson's Patent Draftsperson's Patent Draftsperson Draftsperson	awing Review (PTO-948)		Interview Summary Paper No(s)/Mail Da Notice of Informal P		-152)			
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### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 5-6,12-14, 16-17, 23-25, 27-28, 34-36, 38-39 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5488670 to Suzuki et al.

As to claim 1, Suzuki discloses an image processing method, compressing the step of :

inputting image data (fig. 6, 100);

performing block selection of objects in the input image data (abstract, col. 2 lines 5-64); discriminating whether each block of the input image data is character or non-character i data (figs. 3a-3c, col. 3 line 3-col. 4 line 55, col. 7 line 55-coll. 8 line 34);

detecting a feature (background color or foreground color) of each block of character dat without utilizing edge portion of the character data (col. 2 lines 53-64, col. 3 line 3-col. 4 line 55)

performing an image process on each block of the character data based on the detected feature of the character data and the non-character image data (col. 3 lines 28-35, edge emphasis and compression); and

outputting the processed image data (fig. 6).

As to claims 2 and 3, Suzuki further discloses the background and foreground (character) color (col. 2 lines 53-64).

As to claim 5, Suzuki further discloses detects edge portion of the character data and utilizes portions of the character data internal to the edge portion in detecting the

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feature of the character data (fig. 5a-c, col. 5 line 40-col. 6 line 28, col. 7 line 5-col. 8 line 34).

As to claim 6, Suzuki further discloses performing color conversion processing of the image data before the outputting step (fig. 6, 112).

Claims 12-14, 16-17, 23-25, 27-28, 34-36, 38-39 are the corresponding image processing apparatus. Computer-executable process, and computer-readable medium claims to claims 1-3, and 5-6 respectively. The discussion are addressed with regard to claims 1-3, and 5-6.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4, 15, 26, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of US 5818317 to Funada et al.

As to claims 4, 15, 26, and 37, Suzuki mentions edge enhancement (emphasis) on character data (col. 3 lines 28-35) but does not explicitly mention smoothing on non-character data that is well known in the art.

Funada, in an analogous environment, discloses edge emphasis on character data and smoothing on non-character data (fig. 28, col. 20 lines 36-45).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the scheme of Funada in the method of Suzuki in order to obtain better quality of image (Funada, col. 1-2

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5. Claims 7-8, 18-19, 29-30, 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of US 5751921 to Fujimoto.

As to claims 7-8, 18-19, 29-30, and 40-41, Suzuki does not explicitly mention thresholding average color of block.

Fujimoto, in an analogous environment, discloses distinguishing the character color by thresholding the average color of the block and determining the color of the character (fig. 19, col. 8 line 60-col. 9, line 24).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the scheme of Fujimoto in the method of Suzuki in order to accurately emphasis the character image data to improve the quality of the image (Fujimoto, col. 1 line 18-col. 2 line 23).

6. Claims 9-10, 20-21, 31-32, 42-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of US6631207 to Hirota et al.

As to claims 9-10, 20-21, 31-32, 42-43, Suzuki does not explicitly mention processing mode for discriminating the character data that is well known in the art.

Hirota, in an analogous environment, discloses using a document mode or other processing modes (col. 17 lines 53-65) for discriminating the character data and based on the image type (document or character or photo) (col. 17 lines 42-65).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the scheme of Hirota in the method of Suzuki in order to better emphasis the edge of the character data (Hirota, col. 1).

7. Claims 11, 22, 33, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of US 5920655 to Makita et al.

As to claims 11, 22, 33, and 44, Makita does not explicitly mention processing plurality the character data of a word that is well known in the art.

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Makita, in an analogous environment, discloses processing plurality the character data of a word (fig. 23 a-b, note that the word has two characters).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the scheme of Makita in the method of Suzuki in order to better recognize the string of characters (Makita, col. 1-2).

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6148102 to Stolin and US 5420938 to Funada et al. disclose methods for processing the character image data.

#### Contact Information

9. Any inquiry concerning this communication or earlier communications should be directed to Jingge Wu whose telephone number is (703) 308-9588. He can normally be reached Monday through Thursday from 8:00 am to 5:30 pm. The examiner can be also reached on second alternate Fridays.

Any inquiry of a general nature or relating to the status of this application should be directed to TC customer service whose telephone number is (703) 306-0377.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Amelia Au, can be reached at (703) 308-6604.

The Working Group Fax number is (703) 872-9314.

Jin⁄gge Wu

rimary Patent Examiner